CONCEPTS RELATED TO DOM MANIPULATION

DOM Selection

- document.getElementById()
- document.getElementsByClassName()
- document.getElementsByTagName()
- document.querySelector()
- document.querySelectorAll()
- parentNode.querySelector()
- parentNode.querySelectorAll()

```
HTML

<div id="myDiv">
  Hello, World!
  DOM Selection Example
</div>

javascript
```

const myDiv = document.getElementById("myDiv");
constparagraphs = document.getElementsByTagName("p");
const firstParagraph = document.querySelector("p");
const allParagraphs = document.querySelectorAll("p");

DOM Traversal

- parentNode.childNodes
- parentNode.firstChild
- parentNode.lastChild
- element.nextSibling

- element.previousSibling
- parentNode.children
- element.parentElement
- element.closest()

```
HTML

li>ltem 1
li>ltem 2
li>ltem 3
```

javascript

```
const list = document.getElementById("list");
const firstListItem = list.firstChild;
const lastListItem = list.lastChild;
const secondListItem = firstListItem.nextSibling;
const parentOfList = list.parentElement;
const closestDiv = list.closest("div");
```

DOM Modification

- element.textContent
- element.innerHTML
- element.setAttribute()
- element.removeAttribute()
- element.classList.add()

- element.classList.remove()
- element.classList.toggle()
- element.style



Hello, DOM Manipulation!

javascript

```
const myParagraph =
document.getElementById("myParagraph");
myParagraph.textContent = "Hello, World!";
myParagraph.innerHTML = "<strong>Hello, World!
</strong>"; myParagraph.setAttribute("class",
"highlight"); myParagraph.removeAttribute("id");
myParagraph.classList.add("new-class");
myParagraph.classList.remove("old-class");
myParagraph.classList.toggle("highlight");
myParagraph.style.color = "blue";
```

Creating and Appending Elements

- document.createElement()
- document.createTextNode()
- parentNode.appendChild()
- parentNode.insertBefore()
- parentNode.replaceChild()

```
HTML

li>Item 1
li>Item 2

javascript

const newTodoItem = document.createElement("li");
newTodoItem.textContent = "Item 3";
const todoList = document.getElementById("todoList");
todoList.appendChild(newTodoItem);
```

Removing Elements

- element.remove()
- parentNode.removeChild()

```
HTML

<div id="container">
Content to be removed
</div>

javascript

const container = document.getElementById("container");
const paragraphToRemove = container.querySelector("p");
paragraphToRemove.remove();
```

Event Handling

- element.addEventListener()
- element.removeEventListener()
- event.preventDefault()
- event.stopPropagation()
- event.currentTarget
- event.target

```
HTML

<button id="myButton">Click Me</button>

javascript

const myButton = document.getElementById("myButton");
myButton.addEventListener("click", function() {
    alert("Button clicked!");
});
```

CSS Classes and Styling

- element.className
- element.classList
- element.style

```
HTML
```

DOM Manipulation and Asynchronous Operations

 Handling AJAX requests and updating the DOM with fetched data.

```
javascript

fetch("https://api.example.com/data")
.then(response => response.json())
.then(data => {
  const myDiv = document.getElementById("myDiv");
  myDiv.textContent = data.message; })
.catch(error => console.error(error));
```

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